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science are likely to possess this quality, as has been demonstrated by those who have been called upon for administrative work both in peace and in war. In filling executive positions of a scientific character, however, it may be desirable to consider those whose scientific work can be replaced, and those not engaged in research, but having a sympathetic interest in its promotion.

For the secretaryship of the American Association a man is needed who, either through his own work or through association with men of science, appreciates the supreme importance of scientific research for human welfare, both when its applications are obvious and when they are not. He must know that research can only be advanced by drawing to it the ablest men and by giving them the best opportunities, and that for recruits and for support the sympathetic interest of a wide public is essential. He should have the executive and administrative ability which keeps details in order and initiates new movements, and at the same time possess those personal qualities that compel others to share his convictions.

The committee on the permanent secretaryship of the American Association will be glad to receive suggestions concerning the conduct of this office and concerning men competent to fill it. The committee on policy has recommended an increase of the annual dues to \$5, and with its 12,000 members the association should be able to support the secretary and his work as adequately as the office warrants.

SCIENTIFIC NOTES AND NEWS

DR. FRANK SCHLESINGER, director of the Allegheny Observatory of the University of Pittsburgh, has been elected director of the Yale Observatory.

MR. C. H. BIRDSEYE has been appointed chief topographic engineer of the U. S. Geological Survey, to succeed M. R. B. Marshall, who recently resigned as chief geographer. Mr. Birdseye was formerly chief of one of the divisions of topographic mapping and during the war served in France as lieutenant-colonel of the Coast Artillery.

COLONEL FREDERICK F. RUSSELL, of the Medical Corps of the army, has been appointed official representative of the medical department of the army in the government division of the National Research Council.

DR. FRANKLIN H. MARTIN, of Chicago, formerly colonel, M. C., U. S. Army, had conferred on him the Order of Commander of Saint Michael and Saint George by the Prince of Wales, in Washington, D. C., on November 14.

THE Boylston Medical Committee appointed by the president and fellows of Harvard College and consisting of Dr. William F. Whitney, chairman, Dr. Harold C. Ernst, Harvard Medical School, Boston, secretary, and Drs. William T. Porter, Edward H. Nichols, Reid Hunt, Henry A. Christian and John Warren, announces that at the annual meeting, held in Boston, in 1916, a prize of \$300 was awarded for an essay entitled "Studies of the *Streptococcus* of Smith," by Dr. Wilson G. Smillie, Cambridge, Mass.

R. C. ALLEN, Michigan state geologist, has resigned his office to become secretary of the Lake Superior Iron Ore Association, with offices at Cleveland.

MR. D. DALE CONDIT has resigned from the Geological Survey, and Mr. Ralph W. Howell is on a year's leave of absence, to accept positions as petroleum geologists with S. Pearson and Sons, Ltd. They sailed for England about the middle of October. Professor Olaf P. Jenkins, of the University of Arizona, who, as we recently announced, had planned to accept a position with this company has become geologist with the Sinclair Consolidated Oil Corporation, in New York City, and Mr. A. C. Veatch has been placed in charge of the exploration department of the same company.

THE council of the Ray Society has appointed Dr. W. T. Calman, of the Zoological Department, British Museum (Natural History), to be secretary in succession to the late Mr. John Hopkinson.

DR. WILLIAM H. RANKIN, for the last five years assistant professor of plant pathology in

the college of agriculture, Cornell University, has been appointed officer in charge of the Field Laboratory of Plant Pathology of the Canadian Department of Agriculture, with headquarters at St. Catherine's, Ontario, and has entered upon his work.

E. J. LAMBERT and A. J. Carlson, professors of the University of Minnesota, have completed an examination of the Mesabi and Vermilion range in the interest of the Minnesota Tax Commission.

WILSON POPENOE, agricultural explorer in the Bureau of Plant Industry, U. S. Department of Agriculture, sailed from California on November 12 for Central and South America, where he will search for economic plants worthy of introduction into the warmer portions of the United States. It is particularly planned to investigate the wild and cultivated avocados, and to obtain the most promising ones for trial in this country.

MR. ROBERT CUSHMAN MURPHY, of the Brooklyn Museum, is in Peru, where he is engaged in making investigations of the birds of the coastal islands. Moving pictures will be made of some of the colonies of pelicans, cormorants, and other sea birds of that region.

DR. HENRY KREPELKA, of Prague, in Czechoslovakia, has been appointed to a research fellowship in chemistry at Harvard and is engaged in the study and investigation of atomic weights under the guidance of Professor Theodore Richards. Dr. Krepelka has been serving as assistant to Professor Brauner, who is director of the chemical laboratory of the University of Prague.

At the 823d meeting of the Philosophical Society of Washington on November 8, R. W. G. Wyckoff presented a paper on "The nature of the forces between atoms in solids" (illustrated), and H. L. Curtis, R. C. Duncan and H. H. Morse on "Methods of measuring ballistic phenomena on a battleship."

DR. E. V. MCCOLLUM, professor of chemical hygiene in the school of hygiene and public health of the Johns Hopkins University, delivered an address before the Franklin Institute of Philadelphia on November 13, on

"Nutrition and physical efficiency." On November 25 he spoke before the Institute of Medicine of Chicago on "The fundamental principles underlying modern nutrition investigations."

THE Bradshaw Lecture before the Royal College of Physicians was given on November 6, by Dr. A. P. Beddard, who spoke on chronic arthritis. The Fitzpatrick Lectures were given by Dr. Edgar G. Browne on November 11 and 13, the subject being "the origin and development of Arabian medicine."

UNIVERSITY AND EDUCATIONAL NEWS

OWING to the death of Mr. Edward M. Reed, which occurred on October 26, 1919, there is released for the general purposes of Yale Observatory one third of the estate of Edward M. Reed, the amount which should thus be added to Observatory funds during the year being estimated at \$60,000 or more.

By the will of Lawrence E. Sexton, a New York lawyer, Harvard University receives property valued at over \$100,000.

DR. LOUIS C. KARPINSKI has been promoted from associate professor to professor of mathematics at the University of Michigan.

DR. EUGENE TAYLOR, formerly instructor who has been taking graduate studies at Harvard University, and Dr. E. P. Lane, of the Rice Institute, have been appointed assistant professors of mathematics at the University of Wisconsin.

DR. A. K. LOBECK, instructor at Columbia University from 1916-18 and during the past year assistant to the chief cartographer, American Commission to Negotiate Peace, Paris, has been appointed assistant professor of geology at the University of Wisconsin.

DR. JOHN T. BUCHHOLZ, of the West Texas State Normal College, has been appointed professor of botany in the University of Arkansas.

DR. J. GRAHAM has been appointed professor of anatomy in the Anderson College of Medicine, Glasgow, in succession to the late Dr. A. M. Buchanan.